Applicant: Nikolai N. Issaev Attorney's Docket No.: 08935-0291001 / M-5027/Z-

Serial No.: 10/719,014

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently amended) A method of making a cathode for a primary lithium battery comprising:

step A: pulling an expanded metal grid including aluminum and having an initial tensile strength and an array of diamond-shaped openings, each opening having a long dimension and a short dimension, and each opening defined by four elongated boundary elements, each boundary element having a length and the pulling being along a direction other than along the length of any of the elements, the pulling providing a pulled expanded metal grid having an increase in the short dimension of the openings and an increase in the tensile strength to greater than 5 lb/in; and

step B: leveling the pulled expanded metal grid by passing the pulled expanded metal grid between rollers, and

step <u>BC</u>: coating the pulled expanded metal grid with a composition including a cathode active material to provide a coated and pulled expanded metal grid,

wherein leveling is conducted before coating and in a separate step before step C.

- 2. (Original) The method of claim 1, wherein the composition is a slurry.
- 3. (Original) The method of claim 1, wherein the cathode active material includes a manganese dioxide, a CF_x , iron disulfide, or a vanadate.
 - 4. (Original) The method of claim 1, wherein the composition includes a carbon source.
- 5. (Original) The method of claim 4, wherein the carbon source includes a carbon fiber, a graphite, an acetylenic carbon, or a combination thereof.

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6. (Original) The method of claim 1, wherein the composition includes a binder.

- 7. (Original) The method of claim 6, wherein the binder includes an organic polymer.
- 8. (Original) The method of claim 1, wherein the grid includes a 1000 series aluminum, a 2000 series aluminum alloy, a 3000 series aluminum alloy, a 5000 series aluminum alloy, a 6000 series aluminum alloy, or a 7000 series aluminum alloy.
- 9. (Original) The method of claim 1, wherein the grid includes a 6000 series aluminum alloy.
- 10. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-0.4% by weight of chromium.
- 11. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0.01-6.8% by weight of copper.
- 12. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0.05-1.3% by weight of iron.
- 13. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0.1-7% by weight of magnesium.
- 14. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-2% by weight of manganese.
- 15. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-2% by weight of silicon.

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16. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including less than 0.25% by weight of titanium.

- 17. (Previously presented) The method of claim 1, wherein the grid includes an aluminum alloy including 0-8.2% by weight of zinc.
- 18. (Original) The method of claim 1, wherein the grid includes an aluminum alloy including 0-2.3% by weight of nickel.
- 19. (Original) The method of claim 1, wherein the grid has a resistivity of less than 100 m Ω /cm.
- 20. (Original) The method of claim 1, wherein the grid has a resistivity of less than 10 m Ω /cm.

21-22. (Cancelled)

- 23. (Currently amended) The method of claim 1, further comprising drying the <u>coated</u> and <u>pulled expanded metal grid after coating</u>.
- 24. (Currently amended) The method of claim 23, further comprising calendering the coated and pulled expanded metal grid after drying.
- 25. (Currently amended) The method of claim 24, wherein calendering includes passing the <u>coated and pulled expanded metal grid through a gap having a thickness of less than 25 mils.</u>

26. (Cancelled)

27. (Currently amended) The method of claim 25, further comprising heat treating the coated and pulled expanded metal grid after calendering.

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28. (Currently amended) The method of claim 27, further comprising drying the <u>coated</u> and <u>pulled expanded metal grid under vacuum after heat treating</u>.

- 29. (Original) The method of claim 9, wherein the composition is a slurry.
- 30. (Original) The method of claim 9, wherein the cathode active material includes a manganese dioxide, a CF_x, iron disulfide, or a vanadate.
- 31. (Original) The method of claim 9, wherein the composition includes a carbon source.
- 32. (Original) The method of claim 31, wherein the carbon source includes a carbon fiber, a graphite, an acetylenic carbon, or a combination thereof.
 - 33. (Original) The method of claim 9, wherein the composition includes a binder.
 - 34. (Original) The method of claim 31, wherein the binder includes an organic polymer.
 - 35-36. (Cancelled)
- 37. (Currently amended) The method of claim 9, further comprising drying the <u>coated</u> and pulled expanded metal grid-after coating.
- 38. (Currently amended) The method of claim 37, further comprising calendering the coated and pulled expanded metal grid after drying.
- 39. (Currently amended) The method of claim 38, wherein calendering includes passing the <u>coated and pulled expanded metal grid through a gap having a thickness of less than 25 mils.</u>

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40-58. (Cancelled)

59. (Previously presented) The method of claim 1, wherein coating the pulled expanded metal grid comprises immersing the metal grid in the composition including the cathode active material.

60-65. (Cancelled)

- 66. (New) The method of claim 1, wherein the cathode active material includes manganese dioxide.
- 67. (New) The method of claim 1, wherein the cathode active material includes an iron disulfide.